

APPENDIX C

SURVEY COUNTS FOR EACH SURVEY QUESTION WITH WEIGHTS AND STANDARD ERRORS

APPENDIX C.1: SUMMARY OF RESULTS OF THE GENERAL PUBLIC SURVEY

APPENDIX C.2: SUMMARY OF RESULTS OF THE STUDENT SURVEY

**APPENDIX C.3: SUMMARY OF RESULTS OF THE STATE AND LOCAL
GOVERNMENT SURVEY**

**APPENDIX C.4: SUMMARY OF RESULTS OF THE LARGE-SCALE END USER
SURVEY**

Appendix C.1. Summary of Results for the General Public Survey

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Sex					
Male	386	427.3	19.2	48.1	1.86
Female	503	461.7	16.4	51.9	1.86
Total	889	889.0	13.5	100	0.00
Age					
18-44	362	464.3	21.4	52.7	1.83
45+	519	416.6	13.1	47.3	1.83
Total	881	880.9	13.4	100	0.00
Region					
Northeast	181	173.8	6.2	19.5	0.62
Midwest	205	204.5	5.2	23.0	0.55
South	280	314.0	8.3	35.3	0.74
West	223	196.7	6.9	22.1	0.67
Total	889	889.0	13.5	100	0.00
Degree					
No degree	519	547.7	19.4	62.0	1.74
Degree	363	336.2	14.8	38.0	1.74
Total	882	883.9	13.5	100	0.00
Urban/Non-Urban					
Urban	448	455.4	9.9	51.2	0.76
Non-Urban	441	433.6	9.2	48.8	0.76
Total	889	889.0	13.5	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Introduction Change					
Before Intro Change	540	525.0	17.2	59.1	1.82
After Intro Change	349	364.0	17.7	40.9	1.82
Total	889	889.0	13.5	100	0.00
Technical Score Level (Below Average/Above Average)					
Score Below Average	449	457.5	18.3	51.5	1.83
Score Above Average	440	431.5	16.8	48.5	1.83
Total	889	889.0	13.5	100	0.00
Question 1a. Hydrogen pipelines exist nationwide.					
True	164	184.3	14.8	20.7	1.57
False	301	287.7	15.0	32.4	1.68
Don't Know	424	417.0	17.1	46.9	1.82
Total for 1a	889	889.0	13.5	100	0.00
Question 1b. In a hydrogen economy, hydrogen replaces fossil fuels as the dominant form of energy.					
True	380	391.3	17.9	44.0	1.84
False	106	102.4	10.2	11.5	1.15
Don't Know	403	395.3	17.0	44.5	1.83
Total for 1b	889	889.0	13.5	100	0.00
Question 1c. Hydrogen gas is toxic.					
True	270	302.5	17.7	34.0	1.80
False	342	329.8	16.1	37.1	1.76
Don't Know	277	256.7	14.2	28.9	1.61
Total for 1c	889	889.0	13.5	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 1d. Fuel cells produce electricity through hydrogen combustion.					
True	318	321.5	16.3	36.2	1.77
False	102	105.1	11.1	11.8	1.23
Don't Know	469	462.4	17.7	52.0	1.84
Total for 1d	889	889.0	13.5	100	0.00
Question 1e. Hydrogen is too dangerous for everyday use by the general public.					
True	233	244.6	15.8	27.5	1.68
False	381	372.5	16.3	41.9	1.80
Don't Know	275	271.9	15.9	30.6	1.71
Total for 1e	889	889.0	13.5	100	0.00
Question 1g. Hydrogen is lighter than air.					
True	508	509.6	17.9	57.3	1.82
False	93	100.8	11.1	11.3	1.22
Don't Know	288	278.5	15.2	31.3	1.68
Total for 1g	889	889.0	13.5	100	0.00
Question 1h. Hydrogen has a distinct odor.					
True	110	131.5	13.0	14.8	1.41
False	435	417.7	16.6	47.0	1.83
Don't Know	344	339.8	16.7	38.2	1.78
Total for 1h	889	889.0	13.5	100	0.00
Question 3a. In which state or condition can hydrogen be stored?					
Chemical compound	34	39.4	7.6	4.43	0.84
Liquid	210	205.2	14.0	23.1	1.54
Both of the above	255	261.8	15.4	29.4	1.68

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
None of the above	37	43.9	7.9	4.94	0.88
Don't know/No opinion	353	338.8	16.1	38.1	1.77
Total for 3a	889	889.0	13.5	100	0.00
Question 3b. When using pure hydrogen, fuel cell vehicles generate electricity, water and what else?					
Carbon dioxide	68	67.7	8.5	7.61	0.95
Nitrous oxides	28	33.7	7.0	3.80	0.78
Heat	167	164.2	12.4	18.5	1.39
All of these	165	192.4	15.8	21.6	1.65
Don't know/No opinion	461	431.0	16.0	48.5	1.82
Total for 3b	889	889.0	13.5	100	0.00
Question 3c. Hydrogen can be produced using which of the following sources of energy?					
Natural gas	86	99.2	11.7	11.2	1.27
Sunlight	36	39.0	6.9	4.39	0.78
Organic matter	73	74.0	9.2	8.33	1.02
All of these	335	341.6	16.7	38.4	1.78
Don't know/No opinion	359	335.1	15.6	37.7	1.75
Total for 3c	889	889.0	13.5	100	0.00
Question 3d. Which of the following would you MOST closely associate with the word "hydrogen"?					
The H-bomb	251	232.7	13.9	26.2	1.57
Chemistry class	235	252.1	16.3	28.4	1.72
Fuel	132	133.5	11.7	15.0	1.30
The Hindenburg	176	169.7	12.6	19.1	1.41
Don't know/No opinion	95	101.1	11.1	11.4	1.23
Total for 3d	889	889.0	13.5	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 3e. How would you feel if your local gas station also sold hydrogen?					
Frightened	62	71.4	9.6	8.03	1.06
Uneasy	154	165.2	13.9	18.6	1.50
At ease	203	193.0	13.2	21.7	1.48
Pleased	242	232.2	14.0	26.1	1.57
Don't know/No opinion	228	227.2	14.6	25.6	1.60
Total for 3e	889	889.0	13.5	100	0.00
Question 3f. Which of the following represents a type of fuel cell?					
PDQ	11	15.5	5.4	1.75	0.60
PEM	28	30.1	5.9	3.38	0.66
CFC	55	58.9	8.5	6.63	0.95
None of these	108	110.7	11.5	12.5	1.27
Don't know/No opinion	687	673.7	16.6	75.8	1.63
Total for 3f	889	889.0	13.5	100	0.00
Question 4a. Using hydrogen will reduce U.S. dependence on foreign oil.					
Disagree	56	62.9	9.9	7.07	1.08
Are neutral	43	44.2	7.1	4.97	0.80
Agree	607	586.9	16.7	66.0	1.80
No opinion	183	195.0	14.5	21.9	1.57
Total for 4a	889	889.0	13.5	100	0.00
Question 4b. Using hydrogen will reduce emissions and improve air quality.					
Disagree	46	51.9	8.4	5.84	0.93
Are neutral	44	51.6	8.8	5.80	0.97
Agree	545	524.7	16.9	59.0	1.83
No opinion	254	260.8	15.5	29.3	1.66

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 4b	889	889.0	13.5	100	0.00
Question 4d. Hydrogen is as safe as gasoline and diesel fuels.					
Disagree	137	138.8	12.3	15.6	1.36
Are neutral	63	68.4	9.6	7.69	1.06
Agree	353	348.3	16.1	39.2	1.78
No opinion	336	333.5	16.6	37.5	1.78
Total for 4d	889	889.0	13.5	100	0.00
Question 5a. Personal cars and trucks					
Low	243	225.2	13.8	25.3	1.55
Medium	224	233.7	15.2	26.3	1.64
High	243	248.3	15.5	27.9	1.66
No opinion	179	181.7	13.6	20.4	1.50
Total for 5a	889	889.0	13.5	100	0.00
Question 5b. Buses and commercial vehicles					
Low	181	174.6	13.0	19.6	1.45
Medium	220	212.3	13.7	23.9	1.54
High	302	317.6	17.3	35.7	1.79
No opinion	186	184.5	13.6	20.8	1.49
Total for 5b	889	889.0	13.5	100	0.00
Question 5c. Large power plants					
Low	205	196.9	13.0	22.2	1.48
Medium	183	177.4	13.3	20.0	1.47
High	299	317.3	17.3	35.7	1.78
No opinion	202	197.3	13.6	22.2	1.51

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 5c	889	889.0	13.5	100	0.00
Question 5d. Small portable devices such as laptop computers or cell phones					
Low	364	366.0	16.8	41.2	1.80
Medium	120	122.0	11.5	13.7	1.28
High	129	141.3	13.0	15.9	1.42
No opinion	276	259.8	14.8	29.2	1.64
Total for 5d	889	889.0	13.5	100	0.00
Question 5e. Onsite power for the home					
Low	342	322.2	15.5	36.2	1.75
Medium	205	212.0	14.7	23.8	1.60
High	135	148.7	13.5	16.7	1.46
No opinion	207	206.1	14.2	23.2	1.56
Total for 5e	889	889.0	13.5	100	0.00
Question 5f. Onsite power for buildings such as hospitals and schools					
Low	215	209.5	13.9	23.6	1.54
Medium	234	226.8	14.5	25.5	1.61
High	237	257.3	16.3	28.9	1.72
No opinion	203	195.5	13.4	22.0	1.50
Total for 5f	889	889.0	13.5	100	0.00
Question 6a. Personal cars and trucks					
Not as safe	138	136.9	12.0	15.4	1.33
Equally as safe	326	331.9	17.1	37.3	1.79
Safer	152	159.7	13.2	18.0	1.45
No opinion	273	260.5	14.6	29.3	1.63

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 6a	889	889.0	13.5	100	0.00
Question 6b. Buses and commercial vehicles					
Not as safe	115	116.9	11.4	13.2	1.27
Equally as safe	334	339.9	17.2	38.2	1.79
Safer	165	168.5	13.2	18.9	1.46
No opinion	275	263.8	14.6	29.7	1.64
Total for 6b	889	889.0	13.5	100	0.00
Question 6c. Large power plants					
Not as safe	128	142.4	13.4	16.0	1.45
Equally as safe	313	311.0	15.9	35.0	1.73
Safer	169	170.3	13.3	19.2	1.47
No opinion	279	265.3	14.7	29.8	1.65
Total for 6c	889	889.0	13.5	100	0.00
Question 6d. Small portable devices such as laptop computers or cell phones					
Not as safe	198	204.1	14.3	23.0	1.56
Equally as safe	235	246.4	15.8	27.7	1.68
Safer	86	88.6	10.2	9.97	1.13
No opinion	370	349.9	15.8	39.4	1.76
Total for 6d	889	889.0	13.5	100	0.00
Question 6e. Onsite power for the home					
Not as safe	158	161.9	13.3	18.2	1.45
Equally as safe	320	327.7	16.9	36.9	1.79
Safer	120	125.1	11.8	14.1	1.30
No opinion	291	274.2	14.8	30.8	1.66

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 6e	889	889.0	13.5	100	0.00
Question 6f. Onsite power for buildings such as hospitals and schools					
Not as safe	127	131.0	12.2	14.7	1.34
Equally as safe	336	337.9	16.7	38.0	1.77
Safer	143	147.8	12.6	16.6	1.39
No opinion	283	272.3	14.9	30.6	1.66
Total for 6f	889	889.0	13.5	100	0.00
Question 7a. Teachers and schools					
Never	612	592.9	17.1	66.7	1.76
Sometimes	189	197.7	14.2	22.2	1.54
Frequently	73	83.7	10.4	9.42	1.15
Don't know	15	14.7	4.0	1.65	0.45
Total for 7a	889	889.0	13.5	100	0.00
Question 7b. Friends and family members					
Never	287	300.2	16.7	33.8	1.76
Sometimes	410	399.6	17.0	44.9	1.81
Frequently	177	175.9	12.9	19.8	1.43
Don't know	15	13.4	3.7	1.51	0.42
Total for 7b	889	889.0	13.5	100	0.00
Question 7c. Environmental and conservation groups					
Never	412	433.6	18.4	48.8	1.85
Sometimes	315	303.7	15.8	34.2	1.74
Frequently	141	132.3	11.6	14.9	1.29
Don't know	21	19.4	4.5	2.19	0.50

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 7c	889	889.0	13.5	100	0.00
Question 7d. Utility companies or brokers, for example, gas or electricity providers					
Never	261	283.6	16.9	31.9	1.76
Sometimes	415	390.5	16.3	43.9	1.79
Frequently	186	188.0	13.7	21.2	1.51
Don't know	27	26.8	5.4	3.01	0.61
Total for 7d	889	889.0	13.5	100	0.00
Question 7e. Federal government					
Never	442	465.1	18.9	52.3	1.83
Sometimes	326	306.7	15.1	34.5	1.71
Frequently	99	94.4	10.0	10.6	1.11
Don't know	22	22.7	5.1	2.55	0.57
Total for 7e	889	889.0	13.5	100	0.00
Question 7f. State government					
Never	450	469.2	18.8	52.8	1.83
Sometimes	336	321.8	15.6	36.2	1.74
Frequently	80	76.5	8.9	8.60	1.00
Don't know	23	21.5	4.7	2.41	0.53
Total for 7f	889	889.0	13.5	100	0.00
Question 7g. Local government					
Never	487	502.3	18.7	56.5	1.81
Sometimes	304	290.2	15.1	32.6	1.70
Frequently	75	71.9	8.9	8.09	0.99
Don't know	23	24.7	5.5	2.78	0.62

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 7g	889	889.0	13.5	100	0.00
Question 8a. Television					
Never	144	147.7	12.8	16.6	1.41
Sometimes	503	506.0	18.2	56.9	1.82
Frequently	236	230.0	14.3	25.9	1.59
Don't know	6	5.3	2.3	0.60	0.26
Total for 8a	889	889.0	13.5	100	0.00
Question 8b. Radio					
Never	333	336.2	17.1	37.8	1.80
Sometimes	424	425.6	17.3	47.9	1.82
Frequently	128	123.6	11.1	13.9	1.24
Don't know	4	3.6	1.9	0.41	0.22
Total for 8b	889	889.0	13.5	100	0.00
Question 8c. The Internet					
Never	450	450.7	17.9	50.7	1.83
Sometimes	270	262.1	14.9	29.5	1.65
Frequently	165	172.6	13.6	19.4	1.48
Don't know	4	3.6	1.9	0.40	0.22
Total for 8c	889	889.0	13.5	100	0.00
Question 8d. Newspapers and non-technical magazines					
Never	214	230.0	15.6	25.9	1.67
Sometimes	454	451.2	17.7	50.8	1.85
Frequently	215	202.2	13.4	22.7	1.50
Don't know	6	5.6	2.3	0.62	0.26

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 8d	889	889.0	13.5	100	0.00
Question 8e. Science and technology magazines and journals					
Never	495	494.2	18.0	55.6	1.83
Sometimes	251	246.6	14.8	27.7	1.63
Frequently	136	140.2	12.3	15.8	1.36
Don't know	7	8.0	3.3	0.90	0.37
Total for 8e	889	889.0	13.5	100	0.00
Question 9. What was the last grade in school you completed?					
8th or less	30	36.7	7.4	4.13	0.83
9th, 10th, or 11th	71	80.9	10.0	9.10	1.11
High school complete	228	240.5	16.0	27.0	1.70
Some college, no degree	190	189.6	14.0	21.3	1.53
Associate degree	34	33.3	6.1	3.74	0.68
Bachelors degree	216	207.3	13.2	23.3	1.50
Postgraduate degree	113	95.6	8.7	10.8	1.00
refused/nr	7	5.1	2.0	0.57	0.22
Total for 9	889	889.0	13.5	100	0.00
Question 10. What is your age?					
18-20	25	47.8	9.9	5.38	1.08
21-24	36	66.5	11.6	7.48	1.25
25-29	62	68.3	9.2	7.68	1.02
30-34	86	94.9	10.4	10.7	1.15
35-39	64	81.9	10.4	9.21	1.14
40-44	89	105.0	11.0	11.8	1.21
45-49	94	89.1	9.3	10.0	1.05

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
50-54	85	76.4	8.3	8.60	0.95
55-59	90	59.7	6.2	6.72	0.73
60-64	67	48.7	6.1	5.48	0.70
65-69	60	47.8	6.2	5.38	0.71
70-74	42	32.1	5.0	3.62	0.57
75 OR OLDER	81	62.6	6.9	7.05	0.80
REFUSED/NR	8	8.1	3.0	0.91	0.34
Total for 10	889	889.0	13.5	100	0.00
Question 11. Which of the following best describes you?					
White	696	626.6	13.3	70.5	1.84
Black	60	98.2	12.7	11.0	1.37
Hispanic	53	102.6	14.2	11.5	1.50
Asian	21	17.1	3.9	1.93	0.44
American Indian	15	11.0	3.1	1.24	0.35
Other	28	18.2	3.6	2.04	0.41
Refused/nr	16	15.3	4.0	1.72	0.46
Total for 11	889	889.0	13.5	100	0.00
Question 12. How many total telephone numbers does your household have?					
One	713	720.9	17.3	81.1	1.41
Two	136	133.8	11.7	15.1	1.31
Three	25	21.6	4.5	2.43	0.51
Four	6	5.3	2.2	0.60	0.25
Five or more	6	4.9	2.2	0.56	0.25
Don't know/refused	3	2.4	1.4	0.27	0.15
Total for 12	889	889.0	13.5	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Safety > Cost?					
No	421	416.4	17.0	46.8	1.84
Yes	468	472.6	18.3	53.2	1.84
Total for Safety > Cost?	889	889.0	13.5	100	0.00
Safety > Enviro?					
No	345	354.7	17.4	39.9	1.81
Yes	544	534.3	17.4	60.1	1.81
Total for Safety > Enviro?	889	889.0	13.5	100	0.00
Safety > Conven?					
No	257	252.6	14.7	28.4	1.63
Yes	632	636.4	17.9	71.6	1.63
Total for Safety > Conven?	889	889.0	13.5	100	0.00
Cost > Enviro?					
No	411	421.8	18.3	47.4	1.84
Yes	478	467.2	17.0	52.6	1.84
Total for Cost > Enviro?	889	889.0	13.5	100	0.00
Cost > Conven?					
No	263	267.5	15.8	30.1	1.69
Yes	626	621.5	17.3	69.9	1.69
Total for Cost > Conven?	889	889.0	13.5	100	0.00
Enviro > Conven?					
No	335	325.8	15.9	36.6	1.75
Yes	554	563.2	18.4	63.4	1.75

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for Enviro > Conven?	889	889.0	13.5	100	0.00

Appendix C.2. Summary of Results for the Student Survey

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Sex					
Males	534	511.4	15.9	51.1	1.63
Females	466	488.6	17.6	48.9	1.63
Total for sex	1,000	1,000.0	7.9	100	0.00
Age					
12	149	165.5	12.9	16.6	1.26
13	146	161.1	12.9	16.1	1.26
14	163	182.3	13.5	18.2	1.32
15	153	139.4	10.7	13.9	1.09
16	183	165.1	11.5	16.5	1.17
17	206	186.6	12.0	18.7	1.22
Total for age	1,000	1,000.0	7.9	100	0.00
Grade					
8th or lower	447	488.8	18.2	49.2	1.65
9th or higher	546	503.9	15.4	50.8	1.65
Total for grade	993	992.7	7.9	100	0.00
Region					
Northeast	177	169.9	3.2	17.0	0.29
Midwest	248	218.9	3.4	21.9	0.31
South	333	368.8	5.0	36.9	0.39
West	242	242.5	4.0	24.2	0.35
Total for region	1,000	1,000.0	7.9	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Urban/Non-Urban					
Urban	505	510.1	5.8	51.0	0.40
Non-Urban	495	489.9	5.4	49.0	0.40
Total for urban	1,000	1,000.0	7.9	100	0.00
Above Average?					
Score Below Average	478	493.9	17.4	49.4	1.64
Score Above Average	522	506.1	16.3	50.6	1.64
Total for above avg.	1,000	1,000.0	7.9	100	0.00
Question 1a. Hydrogen pipelines exist nationwide.					
True	375	390.9	16.8	39.1	1.61
False	265	252.8	14.0	25.3	1.41
Don't know	360	356.3	15.9	35.6	1.58
Total for 1a	1,000	1,000.0	7.9	100	0.00
Question 1b. In a hydrogen economy, hydrogen replaces fossil fuels as the dominant form of energy.					
True	444	431.6	16.1	43.2	1.61
False	164	166.1	12.4	16.6	1.23
Don't know	392	402.3	16.6	40.2	1.60
Total for 1b	1,000	1,000.0	7.9	100	0.00
Question 1c. Hydrogen gas is toxic.					
True	396	407.0	16.9	40.7	1.62
False	392	379.4	15.8	37.9	1.58
Don't know	212	213.5	13.6	21.4	1.35
Total for 1c	1,000	1,000.0	7.9	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 1d. Fuel cells produce electricity through hydrogen combustion.					
True	411	407.5	16.2	40.7	1.60
False	132	134.5	11.3	13.5	1.12
Don't know	457	458.0	16.8	45.8	1.64
Total for 1d	1,000	1,000.0	7.9	100	0.00
Question 1e. Hydrogen is so dangerous that it will never be safe for everyday use.					
True	314	314.9	15.6	31.5	1.53
False	457	448.0	16.3	44.8	1.63
Don't know	229	237.1	14.3	23.7	1.40
Total for 1e	1,000	1,000.0	7.9	100	0.00
Question 1g. Hydrogen is lighter than air.					
True	539	520.9	16.2	52.1	1.63
False	277	292.3	15.6	29.2	1.51
Don't know	184	186.8	13.0	18.7	1.29
Total for 1g	1,000	1,000.0	7.9	100	0.00
Question 1h. Hydrogen has a distinct odor.					
True	281	286.6	15.1	28.7	1.48
False	474	467.3	16.5	46.7	1.63
Don't know	245	246.1	14.2	24.6	1.40
Total for 1h	1,000	1,000.0	7.9	100	0.00
Question 3a. In which state or condition can hydrogen be stored?					
Chemical	140	141.2	11.6	14.1	1.15
Liquid	138	138.9	11.3	13.9	1.13
Both	363	354.5	15.5	35.5	1.55

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Neither	118	119.7	10.8	12.0	1.07
Don't know/No opinion	241	245.6	14.4	24.6	1.41
Total for 3a	1,000	1,000.0	7.9	100	0.00
Question 3b. When using pure hydrogen, fuel cell vehicles generate electricity, water and what else?					
Carbon dioxide	140	148.1	12.0	14.8	1.18
Nitrous oxides	40	38.4	6.2	3.84	0.62
Heat	173	167.1	12.0	16.7	1.21
All of these	337	333.3	15.5	33.3	1.53
Don't know/No opinion	310	313.1	15.5	31.3	1.53
Total for 3b	1,000	1,000.0	7.9	100	0.00
Question 3c. Hydrogen can be produced using which of the following sources?					
Natural gas	213	222.1	14.0	22.2	1.38
Sunlight	91	91.8	9.5	9.18	0.95
Organic matter	89	86.6	9.0	8.66	0.90
All of these	355	354.3	16.0	35.4	1.57
Don't know/No opinion	252	245.3	14.1	24.5	1.40
Total for 3c	1,000	1,000.0	7.9	100	0.00
Question 3d. Which of the following would you MOST closely associate with the word "hydrogen"?					
The H-bomb	223	212.1	13.2	21.2	1.32
Chemistry class	440	445.1	16.8	44.5	1.64
Fuel	112	109.0	10.2	10.9	1.02
The Hindenburg	84	83.5	8.9	8.35	0.89
Don't know/No opinion	141	150.2	12.2	15.0	1.20
Total for 3d	1,000	1,000.0	7.9	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 3e. How would you feel if your local gas station also sold hydrogen?					
Frightened	85	91.2	9.8	9.12	0.97
Uneasy	186	187.1	13.1	18.7	1.30
At ease	211	207.6	13.2	20.8	1.32
Pleased	168	161.5	11.8	16.2	1.18
Don't know/No opinion	350	352.6	16.1	35.3	1.57
Total for 3e	1,000	1,000.0	7.9	100	0.00
Question 3f. Which of the following represents a type of fuel cell?					
PDQ	36	33.9	5.8	3.39	0.58
PEM	26	26.7	5.4	2.67	0.53
CFC	71	73.2	8.7	7.32	0.86
None of these	290	295.5	15.4	29.5	1.51
Don't know/No opinion	577	570.8	16.7	57.1	1.63
Total for 3f	1,000	1,000.0	7.9	100	0.00
Question 4a. Using hydrogen will reduce U.S. dependence on foreign oil.					
Disagree	124	130.8	11.5	13.1	1.14
Are neutral	83	82.4	9.0	8.24	0.89
Agree	549	529.2	16.2	52.9	1.64
No opinion	244	257.6	14.9	25.8	1.45
Total for 4a	1,000	1,000.0	7.9	100	0.00
Question 4b. Using hydrogen will reduce emissions and improve air quality.					
Disagree	163	172.5	12.9	17.2	1.26
Are neutral	95	92.2	9.5	9.22	0.95
Agree	510	496.4	16.4	49.6	1.63
No opinion	232	238.9	14.3	23.9	1.41

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 4b	1,000	1,000.0	7.9	100	0.00
Question 4d. Hydrogen is as safe as gasoline and diesel fuels.					
Disagree	266	270.1	14.9	27.0	1.47
Are neutral	114	110.6	10.2	11.1	1.02
Agree	369	366.0	15.8	36.6	1.57
No opinion	251	253.3	14.5	25.3	1.43
Total for 4d	1,000	1,000.0	7.9	100	0.00
Question 5a. Personal cars and trucks					
Low	192	185.2	12.6	18.5	1.26
Medium	329	329.4	15.7	32.9	1.55
High	360	366.5	16.3	36.7	1.59
No opinion	119	118.8	10.8	11.9	1.08
Total for 5a	1,000	1,000.0	7.9	100	0.00
Question 5b. Buses and commercial vehicles					
Low	174	170.8	12.3	17.1	1.22
Medium	325	320.0	15.5	32.0	1.53
High	354	359.8	16.1	36.0	1.58
No opinion	147	149.5	11.9	15.0	1.18
Total for 5b	1,000	1,000.0	7.9	100	0.00
Question 5c. Large power plants					
Low	158	162.3	12.3	16.2	1.22
Medium	227	221.5	13.4	22.1	1.34
High	473	471.8	16.8	47.2	1.65
No opinion	142	144.5	11.8	14.4	1.17

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 5c	1,000	1,000.0	7.9	100	0.00
Question 5d. Small portable devices such as laptop computers or cell phones					
Low	407	397.8	15.9	39.8	1.59
Medium	173	173.2	12.4	17.3	1.23
High	274	281.0	15.4	28.1	1.50
No opinion	146	148.0	11.8	14.8	1.18
Total for 5d	1,000	1,000.0	7.9	100	0.00
Question 5e. Onsite power for the home					
Low	220	216.5	13.5	21.7	1.34
Medium	381	375.7	15.9	37.6	1.57
High	257	261.5	14.7	26.1	1.45
No opinion	142	146.3	11.8	14.6	1.17
Total for 5e	1,000	1,000.0	7.9	100	0.00
Question 5f. Onsite power for buildings such as hospitals and schools					
Low	184	183.2	12.7	18.3	1.26
Medium	278	278.9	14.7	27.9	1.46
High	391	387.7	16.2	38.8	1.60
No opinion	147	150.2	11.9	15.0	1.18
Total for 5f	1,000	1,000.0	7.9	100	0.00
Question 6a. Personal cars and trucks					
Not as safe	223	224.4	14.0	22.4	1.38
Equally as safe	372	366.4	15.8	36.6	1.57
Safer	272	271.1	14.6	27.1	1.45
No opinion	133	138.1	11.5	13.8	1.14

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 6a	1,000	1,000.0	7.9	100	0.00
Question 6b. Buses and commercial vehicles					
Not as safe	232	239.2	14.5	23.9	1.42
Equally as safe	351	342.9	15.6	34.3	1.56
Safer	281	278.3	14.8	27.8	1.47
No opinion	136	139.6	11.6	14.0	1.15
Total for 6b	1,000	1,000.0	7.9	100	0.00
Question 6c. Large power plants					
Not as safe	314	319.9	15.7	32.0	1.53
Equally as safe	261	251.7	13.9	25.2	1.39
Safer	280	279.4	14.7	27.9	1.46
No opinion	145	149.0	11.8	14.9	1.17
Total for 6c	1,000	1,000.0	7.9	100	0.00
Question 6d. Small portable devices such as laptop computers or cell phones					
Not as safe	276	272.4	14.7	27.2	1.45
Equally as safe	364	361.9	16.0	36.2	1.57
Safer	209	211.7	13.6	21.2	1.34
No opinion	151	154.0	11.8	15.4	1.18
Total for 6d	1,000	1,000.0	7.9	100	0.00
Question 6e. Onsite power for the home					
Not as safe	256	251.4	14.2	25.1	1.41
Equally as safe	379	376.4	16.0	37.6	1.58
Safer	223	224.4	13.9	22.4	1.38
No opinion	142	147.8	11.9	14.8	1.18

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 6e	1,000	1,000.0	7.9	100	0.00
Question 6f. Onsite power for buildings such as hospitals and schools					
Not as safe	207	206.5	13.4	20.7	1.32
Equally as safe	349	344.2	15.7	34.4	1.56
Safer	307	306.8	15.3	30.7	1.51
No opinion	137	142.5	11.8	14.2	1.17
Total for 6f	1,000	1,000.0	7.9	100	0.00
Question 7a. Cost of vehicle					
Not important	97	100.6	10.0	10.1	1.00
Neutral	144	137.0	11.2	13.7	1.12
Important	691	691.9	16.1	69.2	1.52
No opinion	68	70.6	8.7	7.06	0.86
Total for 7a	1,000	1,000.0	7.9	100	0.00
Question 7b. Gas mileage					
Not important	50	53.3	7.6	5.33	0.75
Neutral	87	86.7	9.3	8.67	0.93
Important	814	809.7	14.1	81.0	1.30
No opinion	49	50.4	7.4	5.04	0.74
Total for 7b	1,000	1,000.0	7.9	100	0.00
Question 7c. Power and speed					
Not important	211	209.7	13.5	21.0	1.34
Neutral	236	235.4	13.7	23.5	1.36
Important	492	494.5	16.8	49.4	1.63
No opinion	61	60.4	7.9	6.04	0.79

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 7c	1,000	1,000.0	7.9	100	0.00
Question 7e. Reliability					
Not important	34	35.6	6.3	3.56	0.63
Neutral	75	77.2	9.0	7.72	0.89
Important	831	825.3	13.8	82.5	1.27
No opinion	60	61.9	8.2	6.19	0.81
Total for 7e	1,000	1,000.0	7.9	100	0.00
Question 7f. Safety					
Not important	15	14.4	3.9	1.44	0.39
Neutral	57	55.1	7.3	5.51	0.74
Important	891	892.0	12.4	89.2	1.01
No opinion	37	38.5	6.5	3.85	0.65
Total for 7f	1,000	1,000.0	7.9	100	0.00
Question 7g. Environment					
Not important	74	68.5	8.0	6.85	0.80
Neutral	153	147.8	11.4	14.8	1.14
Important	707	714.6	16.0	71.5	1.46
No opinion	66	69.0	8.5	6.90	0.84
Total for 7g	1,000	1,000.0	7.9	100	0.00
Question 8a. Television					
Never	224	215.4	13.1	21.5	1.32
Sometimes	525	520.1	16.7	52.0	1.63
Frequently	230	242.0	14.5	24.2	1.42
Don't know	21	22.6	5.0	2.26	0.50

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 8a	1,000	1,000.0	7.9	100	0.00
Question 8b. Radio					
Never	522	516.5	16.7	51.6	1.64
Sometimes	337	335.0	15.7	33.5	1.55
Frequently	111	116.9	10.8	11.7	1.07
Don't know	30	31.7	6.0	3.17	0.59
Total for 8b	1,000	1,000.0	7.9	100	0.00
Question 8c. The Internet					
Never	397	397.6	16.3	39.8	1.59
Sometimes	366	361.2	15.7	36.1	1.56
Frequently	206	206.3	13.4	20.6	1.33
Don't know	31	35.0	6.3	3.50	0.63
Total for 8c	1,000	1,000.0	7.9	100	0.00
Question 8d. Newspapers and non-technical magazines					
Never	368	361.8	15.8	36.2	1.57
Sometimes	449	451.7	16.6	45.2	1.63
Frequently	140	141.2	11.5	14.1	1.14
Don't know	43	45.3	7.0	4.53	0.70
Total for 8d	1,000	1,000.0	7.9	100	0.00
Question 8e. Science and technology magazines and journals					
Never	364	361.6	15.9	36.2	1.57
Sometimes	336	334.7	15.7	33.5	1.54
Frequently	263	265.8	14.7	26.6	1.45
Don't know	37	37.9	6.4	3.79	0.63

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 8e	1,000	1,000.0	7.9	100	0.00
Question 8f. Classroom instructions					
Never	205	198.7	13.0	19.9	1.29
Sometimes	454	447.0	16.5	44.7	1.63
Frequently	312	325.1	15.8	32.5	1.54
Don't know	29	29.2	5.6	2.92	0.56
Total for 8f	1,000	1,000.0	7.9	100	0.00
Question 8g. General discussions with family or friends					
Never	496	492.5	16.8	49.2	1.65
Sometimes	372	373.6	16.2	37.4	1.59
Frequently	112	113.2	10.5	11.3	1.04
Don't know	20	20.7	4.8	2.07	0.48
Total for 8g	1,000	1,000.0	7.9	100	0.00
Question 9a. Received instruction on or otherwise learned about energy use, fuels, and emissions					
Yes	634	641.1	16.7	64.1	1.57
No	348	341.0	15.6	34.1	1.54
Don't know	18	17.9	4.4	1.79	0.44
Total for 9a	1,000	1,000.0	7.9	100	0.00
Question 9b. Received instruction on or otherwise learned about hydrogen and fuel cells					
Yes	569	566.8	16.8	56.7	1.62
No	412	413.2	16.5	41.3	1.61
Don't know	19	20.0	4.7	2.00	0.47
Total for 9b	1,000	1,000.0	7.9	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 9c. Ever used a demonstration kit to produce hydrogen					
Yes	114	119.5	11.0	12.0	1.09
No	863	859.6	13.2	86.0	1.15
Don't know	23	20.8	4.3	2.08	0.44
Total for 9c	1,000	1,000.0	7.9	100	0.00
Question 9d. Ever used a model fuel cell science kit					
Yes	95	99.7	10.0	9.97	1.00
No	883	878.5	12.7	87.8	1.08
Don't know	22	21.8	4.8	2.18	0.48
Total for 9d	1,000	1,000.0	7.9	100	0.00
Question 9e. Ever seen or used a hydrogen fuel cell model car					
Yes	130	131.1	11.1	13.1	1.11
No	856	854.8	13.4	85.5	1.16
Don't know	14	14.1	4.0	1.41	0.40
Total for 9e	1,000	1,000.0	7.9	100	0.00
Question 9f. Participated in a fuel cell vehicle design competition					
Yes	28	28.5	5.6	2.85	0.56
No	963	962.1	9.9	96.2	0.64
Don't know	9	9.4	3.2	0.94	0.32
Total for 9f	1,000	1,000.0	7.9	100	0.00
Question 9g. Participated in a science bowl or other science competition					
Yes	382	387.2	16.5	38.7	1.61
No	616	610.3	16.7	61.0	1.61
Don't know	2	2.4	1.7	0.24	0.17

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 9g	1,000	1,000.0	7.9	100	0.00
Question 10a. Received instruction on or otherwise learned about energy use, fuels, and emissions					
Yes	581	588.9	9.2	91.9	1.12
No	50	49.8	7.1	7.77	1.10
Don't know	3	2.4	1.4	0.37	0.22
Total for 10a	634	641.1	6.2	100	0.00
Question 10b. Received instruction on or otherwise learned about hydrogen and fuel cells					
Yes	523	524.0	8.5	92.4	1.10
No	46	42.8	6.2	7.56	1.10
Total for 10b	569	566.8	5.8	100	0.00
Question 10c. Ever used a demonstration kit to produce hydrogen					
Yes	106	110.8	4.2	92.7	2.53
No	6	7.0	2.7	5.82	2.25
Don't know	2	1.8	1.4	1.50	1.16
Total for 10c	114	119.5	3.0	100	0.00
Question 10d. Ever used a model fuel cell science kit					
Yes	83	88.0	4.5	88.2	3.22
No	12	11.7	3.2	11.8	3.22
Total for 10d	95	99.7	2.9	100	0.00
Question 10e. Ever seen or used a hydrogen fuel cell model car					
Yes	73	75.0	5.8	57.2	4.07
No	55	54.6	5.3	41.6	4.06
Don't know	2	1.5	0.5	1.14	0.40

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Total for 10e	130	131.1	2.7	100	0.00
Question 10f. Participated in a fuel cell vehicle design competition					
Yes	23	22.4	2.3	78.5	8.48
No	5	6.1	2.5	21.5	8.48
Total for 10f	28	28.5	1.2	100	0.00
Question 10g. Participated in a science bowl or other science competition					
Yes	370	377.0	6.1	97.4	0.79
No	12	10.3	3.1	2.65	0.79
Total for 10g	382	387.2	5.1	100	0.00
Question 11a. Received instruction on or otherwise learned about energy use, fuels, and emissions					
Home	25	23.6	2.7	45.2	5.76
Scouts	2	2.3	1.6	4.35	3.08
Internet	6	5.6	1.3	10.6	2.58
Other	14	14.9	3.5	28.5	6.30
Don't know	6	5.9	2.4	11.3	4.55
Total for 11a	53	52.2	1.9	100	0.00
Question 11b. Received instruction on or otherwise learned about hydrogen and fuel cells					
Home	22	21.9	3.2	51.1	6.87
Religious organization	2	1.4	1.0	3.36	2.42
Internet	7	6.0	1.8	14.0	4.31
Other	14	12.5	2.8	29.3	6.96
Don't know	1	0.9	0.0	2.19	0.05
Total for 11b	46	42.8	1.0	100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 11c. Ever used a demonstration kit to produce hydrogen					
Home	3	3.4	0.0	38.8	0.94
Scouts	2	2.4	1.1	27.3	13.1
Don't know	3	3.0	1.3	33.9	14.0
Total for 11c	8	8.8	0.2	100	0.00
Question 11d. Ever used a model fuel cell science kit					
Home	8	8.4	1.2	71.2	12.7
Scouts	1	0.9	0.9	7.98	7.72
Internet	1	0.5	0.0	4.60	0.17
Other	1	0.6	0.0	5.16	0.20
Don't know	1	1.3	1.3	11.1	10.9
Total for 11d	12	11.7	0.4	100	0.00
Question 11e. Ever seen or used a hydrogen fuel cell model car					
Home	16	16.5	3.5	29.4	6.13
Religious organization	1	0.9	0.9	1.67	1.68
Scouts	2	2.0	1.4	3.53	2.50
Internet	6	6.1	1.9	10.9	3.33
Other	27	26.0	3.5	46.4	6.26
Don't know	5	4.5	1.7	8.11	3.09
Total for 11e	57	56.1	1.2	100	0.00
Question 11f. Participated in a fuel cell vehicle design competition					
Home	2	2.2		35.5	
Other	1	1.1		18.3	
Don't know	2	2.8		46.2	
Total for 11f	5	6.1		100	0.00

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Question 11g. Participated in a science bowl or other science competition					
Home	1	0.8	0.8	7.43	7.56
Religious organization	1	0.5	0.0	5.32	0.21
Scouts	1	0.9	0.9	9.15	9.00
Other	8	6.8	0.4	66.2	1.67
Don't know	1	1.2	0.0	11.9	0.47
Total for 11g	12	10.3	0.4	100	0.00
Question 12. What was the last grade in school you completed?					
4TH OR LESS	4	4.3	2.2	0.43	0.22
5	16	16.7	4.3	1.67	0.43
6	110	118.6	11.1	11.9	1.09
7	165	182.2	13.4	18.2	1.30
8	152	166.9	12.9	16.7	1.27
9	174	162.7	11.6	16.3	1.17
10	161	149.3	11.1	14.9	1.13
11	174	158.9	11.3	15.9	1.15
12	31	26.9	5.0	2.69	0.50
MORE THAN 12	6	6.2	2.5	0.62	0.25
HOME SCHOOLED	2	1.9	1.4	0.19	0.14
REFUSED/NR	5	5.3	2.4	0.53	0.24
Total for 12	1,000	1,000.0	7.9	100	0.00
Question 13. Which of the following best describes you?					
White	631	626.8	15.1	62.7	1.56
Black	112	149.7	13.1	15.0	1.26
Hispanic	125	152.9	12.6	15.3	1.22

Value	Unweighted Frequency	Weighted Frequency	Standard Deviation of Weighted Frequency	Weighted Percent	Standard Error of Percent
Asian	38	18.0	2.8	1.80	0.29
American Indian	24	11.6	2.3	1.16	0.24
Other	57	27.5	3.6	2.75	0.37
Refused/nr	13	13.4	3.8	1.34	0.38
Total for 13	1,000	1,000.0	7.9	100	0.00
Question 14. How many total telephone numbers does your household have?					
One	718	715.2	15.8	71.5	1.46
Two	176	176.1	12.3	17.6	1.23
Three	50	50.4	7.2	5.04	0.72
Four	21	21.4	4.8	2.14	0.48
Five or more	16	16.7	4.3	1.67	0.43
Don't know/refused	19	20.2	4.7	2.02	0.47
Total for 14	1,000	1,000.0	7.9	100	0.00

Appendix C.3. Summary of Results for the State and Local Government Survey

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Function				
City	44	1.2	18.6	0.51
County	46	1.3	19.5	0.54
DEP (State)	49	1.2	20.8	0.52
DOT (State)	50	1.3	21.2	0.53
SEO (State)	47	1.2	19.9	0.51
Total for Function	236	0.0	100	0.00
Region				
Northeast	47	1.2	19.9	0.53
Midwest	56	1.3	23.7	0.56
South	70	1.4	29.7	0.59
West	63	1.4	26.7	0.58
Total for Region	236	0.0	100	0.00
Above Average?				
Score Below Average	117	1.3	49.6	0.57
Score Above Average	119	1.3	50.4	0.57
Total for above avg.	236	0.0	100	0.00
Question 1a. Hydrogen pipelines exist nationwide.				
True	19	1.0	8.05	0.41
False	170	1.4	72.0	0.58
Don't know	47	1.1	19.9	0.48
Total for 1a	236	0.0	100	0.00
Question 1b. In a hydrogen economy, hydrogen replaces fossil fuels as the dominant form of energy.				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
True	162	1.3	68.6	0.55
False	41	1.2	17.4	0.49
Don't know	33	0.8	14.0	0.35
Total for 1b	236	0.0	100	0.00
Question 1c. Hydrogen gas is toxic.				
True	23	0.7	9.75	0.28
False	170	1.3	72.0	0.53
Don't know	43	1.1	18.2	0.46
Total for 1c	236	0.0	100	0.00
Question 1d. Fuel cells produce electricity through hydrogen combustion.				
True	116	1.5	49.2	0.61
False	88	1.3	37.3	0.57
Don't know	32	0.9	13.6	0.40
Total for 1d	236	0.0	100	0.00
Question 1e. Hydrogen is so dangerous that it will never be safe for everyday use.				
True	23	0.6	9.75	0.26
False	185	1.1	78.4	0.45
Don't know	28	0.9	11.9	0.39
Total for 1e	236	0.0	100	0.00
Question 1g. Hydrogen is lighter than air.				
True	187	1.0	79.2	0.43
False	15	0.8	6.36	0.33
Don't know	34	0.8	14.4	0.32
Total for 1g	236	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 1h. Hydrogen has a distinct order.				
True	7	0.6	2.97	0.27
False	192	1.1	81.4	0.49
Don't know	37	1.0	15.7	0.43
Total for 1h	236	0.0	100	0.00
Question 3a. In which state or condition can hydrogen be stored?				
Chemical	2	0.0	0.85	0.00
Liquid	41	1.0	17.4	0.42
Both	153	1.2	64.8	0.53
Neither	6	0.5	2.54	0.22
Don't know/No opinion	34	0.8	14.4	0.34
Total for 3a	236	0.0	100	0.00
Question 3b. When using pure hydrogen, fuel cell vehicles generate electricity, heat and what else?				
Carbon dioxide	23	0.9	9.75	0.40
Nitrous oxides	7	0.7	2.97	0.28
Heat	124	1.4	52.5	0.58
All of these	22	0.4	9.32	0.19
Don't know/No opinion	60	1.1	25.4	0.48
Total for 3b	236	0.0	100	0.00
Question 3c. Hydrogen can be produced using which of the following sources?				
Natural gas	21	0.9	8.90	0.40
Sunlight	14	0.7	5.93	0.30
Organic matter	4	0.0	1.69	0.00
All of these	158	1.3	66.9	0.56
Don't know/No opinion	39	1.0	16.5	0.41
Total for 3c	236	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 3d. Which of the following would you MOST closely associate with the word "hydrogen"?				
The H-bomb	31	0.9	13.1	0.38
Chemistry class	57	1.0	24.2	0.43
Fuel	91	1.4	38.6	0.61
The Hindenburg	52	1.4	22.0	0.58
Don't know/No opinion	5	0.5	2.12	0.21
Total for 3d	236	0.0	100	0.00
Question 3e. How would you feel if your local gas station also sold hydrogen?				
Frightened	1	0.0	0.42	0.00
Uneasy	16	0.7	6.78	0.30
At ease	82	1.4	34.7	0.58
Pleased	125	1.3	53.0	0.55
Don't know/No opinion	12	0.5	5.08	0.21
Total for 3e	236	0.0	100	0.00
Question 3f. Which of the following represents a type of fuel cell?				
PDQ	1	0.0	0.42	0.00
PEM	120	1.3	50.8	0.57
CFC	10	0.6	4.24	0.24
None of these	18	0.8	7.63	0.35
Don't know/No opinion	87	1.3	36.9	0.55
Total for 3f	236	0.0	100	0.00
Question 4a. Using hydrogen will reduce U.S. dependence on foreign oil.				
Disagree	6	0.5	2.54	0.21
Are neutral	11	0.7	4.66	0.28
Agree	217	0.8	91.9	0.35

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
No opinion	2	0.0	0.85	0.00
Total for 4a	236	0.0	100	0.00
Question 4b. Using hydrogen will reduce emissions and improve air quality.				
Disagree	3	0.4	1.27	0.17
Are neutral	7	0.5	2.97	0.21
Agree	217	0.6	91.9	0.27
No opinion	9	0.0	3.81	0.00
Total for 4b	236	0.0	100	0.00
Question 4d. Hydrogen is as safe as gasoline and diesel fuels.				
Disagree	28	0.9	11.9	0.39
Are neutral	11	0.4	4.66	0.17
Agree	167	1.2	70.8	0.49
No opinion	30	0.8	12.7	0.35
Total for 4d	236	0.0	100	0.00
Question 5a. Personal cars and trucks				
Low	120	1.4	50.8	0.59
Medium	73	1.3	30.9	0.57
High	40	0.9	16.9	0.40
No opinion	3	0.0	1.27	0.00
Total for 5a	236	0.0	100	0.00
Question 5b. Buses and commercial vehicles				
Low	73	1.3	30.9	0.56
Medium	95	1.5	40.3	0.62
High	63	1.3	26.7	0.53
No opinion	5	0.3	2.12	0.12

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Total for 5b	236	0.0	100	0.00
Question 5c. Large power plants				
Low	149	1.3	63.1	0.56
Medium	57	1.2	24.2	0.51
High	17	0.5	7.20	0.22
No opinion	13	0.5	5.51	0.21
Total for 5c	236	0.0	100	0.00
Question 5d. Small portable devices such as laptop computers or cell phones				
Low	129	1.4	54.7	0.58
Medium	52	1.3	22.0	0.54
High	36	0.9	15.3	0.39
No opinion	19	0.6	8.05	0.27
Total for 5d	236	0.0	100	0.00
Question 5e. Onsite power for the home				
Low	163	1.3	69.1	0.57
Medium	54	1.2	22.9	0.52
High	10	0.5	4.24	0.21
No opinion	9	0.3	3.81	0.12
Total for 5e	236	0.0	100	0.00
Question 5f. Onsite power for buildings such as hospitals and schools				
Low	92	1.5	39.0	0.64
Medium	103	1.5	43.6	0.63
High	24	0.6	10.2	0.27
No opinion	17	0.7	7.20	0.31
Total for 5f	236	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 6a. Personal cars and trucks				
Not as safe	24	0.9	10.2	0.39
Equally as safe	144	1.3	61.0	0.57
Safer	55	1.3	23.3	0.54
No opinion	13	0.5	5.51	0.20
Total for 6a	236	0.0	100	0.00
Question 6b. Buses and commercial vehicles				
Not as safe	19	0.9	8.05	0.36
Equally as safe	152	1.4	64.4	0.58
Safer	52	1.2	22.0	0.53
No opinion	13	0.5	5.51	0.23
Total for 6b	236	0.0	100	0.00
Question 6c. Large power plants				
Not as safe	20	0.9	8.47	0.39
Equally as safe	134	1.5	56.8	0.63
Safer	49	1.1	20.8	0.48
No opinion	33	1.0	14.0	0.43
Total for 6c	236	0.0	100	0.00
Question 6d. Small portable devices such as laptop computers or cell phones				
Not as safe	49	1.3	20.8	0.54
Equally as safe	118	1.4	50.0	0.60
Safer	23	1.0	9.75	0.41
No opinion	46	1.0	19.5	0.42
Total for 6d	236	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 6e. Onsite power for the home				
Not as safe	35	1.0	14.8	0.41
Equally as safe	145	1.3	61.4	0.55
Safer	30	0.9	12.7	0.37
No opinion	26	0.7	11.0	0.29
Total for 6e	236	0.0	100	0.00
Question 6f. Onsite power for buildings such as hospitals and schools				
Not as safe	23	0.8	9.75	0.32
Equally as safe	159	1.3	67.4	0.54
Safer	29	1.0	12.3	0.41
No opinion	25	0.9	10.6	0.39
Total for 6f	236	0.0	100	0.00
Question 7a. Teachers and schools				
Never	163	1.4	69.1	0.58
Sometimes	62	1.4	26.3	0.57
Frequently	11	0.5	4.66	0.21
Total for 7a	236	0.0	100	0.00
Question 7b. Friends and family members				
Never	109	1.4	46.2	0.61
Sometimes	115	1.4	48.7	0.60
Frequently	12	0.8	5.08	0.33
Total for 7b	236	0.0	100	0.00
Question 7c. Environmental and conservation groups				
Never	22	0.7	9.32	0.30
Sometimes	138	1.5	58.5	0.62

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Frequently	76	1.4	32.2	0.60
Total for 7c	236	0.0	100	0.00
Question 7d. Utility companies or brokers, for example, gas or electricity providers				
Never	27	0.9	11.4	0.36
Sometimes	133	1.5	56.4	0.62
Frequently	76	1.4	32.2	0.59
Total for 7d	236	0.0	100	0.00
Question 7e. Federal government				
Never	16	1.0	6.78	0.42
Sometimes	87	1.3	36.9	0.53
Frequently	133	1.3	56.4	0.56
Total for 7e	236	0.0	100	0.00
Question 7f. State government				
Never	16	0.9	6.78	0.36
Sometimes	137	1.4	58.1	0.60
Frequently	82	1.3	34.7	0.55
Don't know	1	0.0	0.42	0.00
Total for 7f	236	0.0	100	0.00
Question 7g. Local government				
Never	100	1.4	42.4	0.61
Sometimes	109	1.4	46.2	0.60
Frequently	27	1.0	11.4	0.43
Total for 7g	236	0.0	100	0.00
Question 8a. Television				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Never	60	1.3	25.4	0.53
Sometimes	149	1.5	63.1	0.62
Frequently	27	1.0	11.4	0.44
Total for 8a	236	0.0	100	0.00
Question 8b. Radio				
Never	101	1.4	42.8	0.58
Sometimes	120	1.4	50.8	0.58
Frequently	15	0.7	6.36	0.28
Total for 8b	236	0.0	100	0.00
Question 8c. The Internet				
Never	23	0.7	9.75	0.31
Sometimes	77	1.4	32.6	0.58
Frequently	136	1.4	57.6	0.60
Total for 8c	236	0.0	100	0.00
Question 8d. Newspapers and non-technical magazines				
Never	14	0.5	5.93	0.22
Sometimes	153	1.3	64.8	0.57
Frequently	69	1.3	29.2	0.55
Total for 8d	236	0.0	100	0.00
Question 8e. Science and technology magazines and journals				
Never	23	0.6	9.75	0.24
Sometimes	101	1.4	42.8	0.60
Frequently	112	1.4	47.5	0.59
Total for 8e	236	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 9. Does your agency operate any hydrogen-powered vehicles?				
Yes	12	0.5	5.08	0.21
No	216	0.8	91.5	0.35
Don't know	8	0.7	3.39	0.30
Total for 9	236	0.0	100	0.00
Question 10. Do you know of any other organization that operates hydrogen-powered buses or other fleet vehicles your geographic jurisdiction?				
Yes	54	1.2	22.9	0.52
No	164	1.3	69.5	0.54
Don't know	18	0.9	7.63	0.37
Total for 10	236	0.0	100	0.00
Question 11. Does your agency own or operate any stationary fuel cells?				
Yes	20	0.6	8.47	0.26
No	208	0.8	88.1	0.36
Don't know	8	0.6	3.39	0.24
Total for 11	236	0.0	100	0.00
Question 12. Do you know of any other organization that operates stationary fuel cells in your geographic jurisdiction?				
Yes	71	1.0	30.1	0.44
No	147	1.3	62.3	0.56
Don't know	18	0.8	7.63	0.35
Total for 12	236	0.0	100	0.00
Question 13. Does your agency have plans to use hydrogen or fuel cells in the future?				
Yes	71	1.3	30.1	0.53
No	119	1.5	50.4	0.63
Don't know	46	1.2	19.5	0.49

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Total for 13	236	0.0	100	0.00
Question 14. What is the time frame for plans to use hydrogen or fuel cells?				
Within the next year	13	0.5	18.3	0.74
1-5 years	33	0.8	46.5	1.06
Over 5 years	23	0.7	32.4	1.02
DON'T KNOW	2	0.0	2.82	0.00
Total for 14	71	0.0	100	0.00
Question 15. How do you feel about the use of hydrogen and fuel cells in or around the workplace?				
Pleased	81	1.3	34.3	0.55
At ease	126	1.4	53.4	0.60
Uneasy	12	0.5	5.08	0.21
Frightened	1	0.0	0.42	0.00
Don't know/No opinion	16	0.7	6.78	0.30
Total for 15	236	0.0	100	0.00
Question 16. Have you received information at your workplace concerning hydrogen and/or fuel cells?				
Yes	123	1.1	52.1	0.46
No	112	1.1	47.5	0.46
Don't know	1	0.0	0.42	0.00
Total for 16	236	0.0	100	0.00
Question 17a. A training class on hydrogen or fuel cells				
Yes	39	1.1	16.5	0.47
No	197	1.1	83.5	0.47
Total for 17a	236	0.0	100	0.00
Question 17b. A press conference concerning the use of hydrogen or fuel cells				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Yes	43	1.1	18.2	0.45
No	193	1.1	81.8	0.45
Total for 17b	236	0.0	100	0.00
Question 17c. A conference or workshop that included a session on hydrogen or fuel cells				
Yes	101	1.1	42.8	0.47
No	135	1.1	57.2	0.47
Total for 17c	236	0.0	100	0.00
Question 18. Would a DOE-sponsored class, conference or workshop on hydrogen and fuel cells be of value to you?				
Yes	203	1.1	86.0	0.45
No	28	1.1	11.9	0.45
Don't know	5	0.0	2.12	0.00
Total for 18	236	0.0	100	0.00

Appendix C.4. Summary of Results for the Large-Scale End User Survey

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Category				
Transportation	33	4.7	33.3	4.76
Uninterrupted supply users	33	4.7	33.3	4.76
Large power users	33	4.7	33.3	4.76
Total for category	99	0.0	100	0.00
Subcategory				
Trucking	9	2.5	9.09	2.57
Transit	1	1.0	1.01	0.99
Postal service	7	2.3	7.07	2.36
Couriers & messengers	4	1.9	4.04	1.89
Automotive rental/leasing	4	1.9	4.04	1.89
Police	2	1.4	2.02	1.38
Fire	2	1.4	2.02	1.38
Private fleets	3	1.6	3.03	1.66
Airports	1	1.0	1.01	0.99
Farms	9	2.6	9.09	2.61
Financial institutions	5	2.1	5.05	2.10
Educational services	2	1.4	2.02	1.40
Hospitals/residential care	3	1.7	3.03	1.68
Wired communications	1	1.0	1.01	1.00
Wireless communications	1	1.0	1.01	1.00
National security	1	1.0	1.01	1.00
Utilities	2	1.4	2.02	1.40
Government Services	9	2.6	9.09	2.61
Industry	33	0.0	33.3	0.00
Total for subcategory	99	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Region				
Northeast	13	3.3	13.1	3.34
Midwest	29	4.5	29.3	4.55
South	34	4.5	34.3	4.58
West	23	4.2	23.2	4.24
Total for region	99	0.0	100	0.00
Urban/Non-Urban				
Urban	68	4.5	68.7	4.60
Non-Urban	31	4.5	31.3	4.60
Total for urban	99	0.0	100	0.00
Above Average?				
Score Below Average	41	4.7	41.4	4.75
Score Above Average	58	4.7	58.6	4.75
Total for above avg.	99	0.0	100	0.00
Question 1. I am going to read several job titles. Please tell me which one applies to you.				
Fleet manager	3	1.7	3.03	1.71
Plant or facility manager	22	4.1	22.2	4.17
Operations manager	22	4.1	22.2	4.13
Financial manager	7	2.5	7.07	2.55
Energy manager	13	3.3	13.1	3.30
CEO	1	1.0	1.01	1.00
Something else	31	4.4	31.3	4.49
Total for 1	99	0.0	100	0.00
Question 2. How many years have you held this position?				
Less than one year	1	1.0	1.01	0.99

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Between one and five years	37	4.8	37.4	4.85
Over five years	61	4.8	61.6	4.87
Total for 2	99	0.0	100	0.00
Question 3a. How many vehicles are in the GROUND-BASED fleet operated by your organization or agency?				
LESS THAN 100	21	2.8	63.6	8.34
100-1,000	9	2.5	27.3	7.72
1,001-10,000	2	1.4	6.06	4.14
OVER 10,000	1	1.0	3.03	2.97
Total for 3a	33	0.0	100	0.00
Question 3b. What is the average annual cost of electrical energy for your organization or agency?				
UNDER \$100,000	5	2.2	7.58	3.27
\$100,000 TO \$1,000,000	17	3.6	25.8	5.38
\$1,000,001 TO \$2,000,000	8	2.7	12.1	4.03
OVER \$2,000,000	23	3.5	34.8	5.35
Don't know/Refused	13	3.1	19.7	4.63
Total for 3b	66	0.0	100	0.00
Question 4a. System installation cost				
Low	1	1.0	1.01	0.99
Medium	46	5.0	46.5	5.02
High	44	4.9	44.4	4.96
No opinion	8	2.7	8.08	2.68
Total for 4a	99	0.0	100	0.00
Question 4b. System maintenance cost				
Low	7	2.5	7.07	2.57
Medium	33	4.6	33.3	4.66

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
High	53	5.0	53.5	5.01
No opinion	6	2.3	6.06	2.35
Total for 4b	99	0.0	100	0.00
Question 4c. Fuel cost				
Low	1	1.0	1.01	0.99
Medium	18	3.8	18.2	3.86
High	78	4.1	78.8	4.11
No opinion	2	1.4	2.02	1.41
Total for 4c	99	0.0	100	0.00
Question 4d. Dependability				
Medium	6	2.4	6.06	2.39
High	92	2.5	92.9	2.55
No opinion	1	1.0	1.01	0.99
Total for 4d	99	0.0	100	0.00
Question 4e. Safety				
Low	2	1.4	2.02	1.41
Medium	12	3.2	12.1	3.26
High	83	3.7	83.8	3.70
No opinion	2	1.4	2.02	1.38
Total for 4e	99	0.0	100	0.00
Question 4f. Protection of the environment				
Low	6	2.4	6.06	2.38
Medium	35	4.7	35.4	4.77
High	56	4.8	56.6	4.90
No opinion	2	1.4	2.02	1.38

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Total for 4f	99	0.0	100	0.00
Question 4g. Uninterrupted availability				
Low	3	1.7	3.03	1.68
Medium	15	3.6	15.2	3.59
High	79	3.9	79.8	3.97
No opinion	2	1.4	2.02	1.41
Total for 4g	99	0.0	100	0.00
Question 5. Does your organization use hydrogen and/or fuel cells for any purpose?				
Yes	9	2.8	9.09	2.86
No	87	3.2	87.9	3.28
Don't know	3	1.7	3.03	1.71
Total for 5	99	0.0	100	0.00
Question 6. What is the PRIMARY function of the hydrogen and/or fuel cells used by your organization?				
Vehicles other than buses	3	1.7	33.3	19.0
Power for small portable equipment	2	1.4	22.2	15.4
Back-up power	1	1.0	11.1	11.0
Other	3	1.2	33.3	13.4
Total for 6	9	0.0	100	0.00
Question 7. Does your organization have plans to use hydrogen or fuel cells in the future?				
Yes	7	2.5	7.78	2.82
No	57	4.5	63.3	4.96
Don't know	26	4.2	28.9	4.65
Total for 7	90	0.0	100	0.00
Question 8. What is the time frame for your plans to use hydrogen or fuel cells?				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
1-5 years	5	1.4	71.4	19.9
Over 5 years	1	1.0	14.3	14.0
Don't know	1	1.0	14.3	14.2
Total for 8	7	0.0	100	0.00
Question 9. Have you received information at your workplace concerning hydrogen and/or fuel cells?				
Yes	28	4.5	28.3	4.50
No	68	4.6	68.7	4.64
Don't know	3	1.7	3.03	1.71
Total for 9	99	0.0	100	0.00
Question 10a. A training class on hydrogen or fuel cells				
Yes	6	2.4	6.06	2.39
No	93	2.4	93.9	2.39
Total for 10a	99	0.0	100	0.00
Question 10b. A press conference concerning the use of hydrogen or fuel cells				
Yes	4	1.9	4.04	1.95
No	95	1.9	96.0	1.95
Total for 10b	99	0.0	100	0.00
Question 10c. A conference or workshop that included a session on hydrogen or fuel cells				
Yes	14	3.4	14.1	3.47
No	85	3.4	85.9	3.47
Total for 10c	99	0.0	100	0.00
Question 11. Would a "Hydrogen 101" class, or training at a conference or workshop sponsored by the U.S. Department of Energy on hydrogen and				
Yes	70	4.4	70.7	4.46

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
No	25	4.2	25.3	4.29
Don't know	4	1.9	4.04	1.94
Total for 11	99	0.0	100	0.00
Question 12a. Hydrogen pipelines exist nationwide				
True	5	2.2	5.05	2.20
False	48	4.9	48.5	4.97
Don't know	46	4.9	46.5	4.96
Total for 12a	99	0.0	100	0.00
Question 12b. In a hydrogen economy, hydrogen replaces fossil fuels as the dominant form of energy				
True	50	4.6	50.5	4.62
False	13	3.3	13.1	3.38
Don't know	36	4.4	36.4	4.46
Total for 12b	99	0.0	100	0.00
Question 12c. Hydrogen gas is toxic				
True	9	2.9	9.09	2.88
False	54	4.8	54.5	4.85
Don't know	36	4.6	36.4	4.64
Total for 12c	99	0.0	100	0.00
Question 12d. Fuel cells produce electricity through hydrogen combustion				
True	44	4.9	44.4	4.95
False	17	3.8	17.2	3.79
Don't know	38	4.8	38.4	4.83
Total for 12d	99	0.0	100	0.00
Question 12e. Hydrogen is too dangerous for everyday use by the general public				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
True	10	3.0	10.1	3.03
False	60	4.6	60.6	4.68
Don't know	29	4.3	29.3	4.38
Total for 12e	99	0.0	100	0.00
Question 12f. Hydrogen is lighter than air				
True	62	4.7	62.6	4.74
False	6	2.4	6.06	2.38
Don't know	31	4.4	31.3	4.49
Total for 12f	99	0.0	100	0.00
Question 12g. Hydrogen has a distinct odor				
True	3	1.7	3.03	1.71
False	59	4.6	59.6	4.62
Don't know	37	4.6	37.4	4.63
Total for 12g	99	0.0	100	0.00
Question 13a. In which state or condition can hydrogen be stored?				
Liquid	11	3.0	11.1	3.08
Both	46	4.8	46.5	4.83
Neither	4	1.9	4.04	1.95
Don't know/No opinion	38	4.7	38.4	4.74
Total for 13a	99	0.0	100	0.00
Question 13b. When using pure hydrogen, fuel cell vehicles generate electricity, water, and what else?				
Carbon dioxide	10	2.9	10.1	2.97
Nitrous oxides	2	1.4	2.02	1.40
Heat	29	4.5	29.3	4.58
All of these	9	2.9	9.09	2.89

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Don't know/No opinion	49	5.0	49.5	5.01
Total for 13b	99	0.0	100	0.00
Question 13c. Hydrogen can be produced using which of the following sources of energy?				
Natural gas	7	2.5	7.07	2.56
Sunlight	2	1.4	2.02	1.38
Organic matter	4	1.9	4.04	1.91
All of these	40	4.8	40.4	4.83
Don't know/No opinion	46	4.9	46.5	4.98
Total for 13c	99	0.0	100	0.00
Question 13d. Which of the following would you MOST closely associate with the word "hydrogen"?				
The H-bomb	19	3.9	19.2	3.93
Chemistry class	41	4.8	41.4	4.82
Fuel	18	3.8	18.2	3.87
The Hindenburg	12	3.2	12.1	3.25
Don't know/No opinion	9	2.8	9.09	2.82
Total for 13d	99	0.0	100	0.00
Question 13e. How would you feel if your local gas station also sold hydrogen?				
Uneasy	3	1.7	3.03	1.73
At ease	41	4.8	41.4	4.80
Pleased	32	4.6	32.3	4.60
Don't know/No opinion	23	3.9	23.2	3.94
Total for 13e	99	0.0	100	0.00
Question 13f. Which of the following represents a type of fuel cell?				
PEM	19	3.9	19.2	3.95
CFC	1	1.0	1.01	0.99

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
None of these	5	2.1	5.05	2.16
Don't know/No opinion	74	4.3	74.7	4.31
Total for 13f	99	0.0	100	0.00
Question 14a. Using hydrogen will reduce U.S. dependence on foreign oil				
Agree	86	3.1	86.9	3.09
No opinion	13	3.1	13.1	3.09
Total for 14a	99	0.0	100	0.00
Question 14b. Using hydrogen will reduce emissions and improve air quality				
Disagree	1	1.0	1.01	0.99
Are neutral	1	1.0	1.01	0.99
Agree	81	3.6	81.8	3.66
No opinion	16	3.4	16.2	3.42
Total for 14b	99	0.0	100	0.00
Question 14c. Hydrogen is as safe as gasoline and diesel fuels				
Disagree	10	3.0	10.1	3.01
Are neutral	4	2.0	4.04	1.98
Agree	52	4.9	52.5	4.92
No opinion	33	4.5	33.3	4.54
Total for 14c	99	0.0	100	0.00
Question 15a. Personal cars and trucks				
Low	28	4.5	28.3	4.52
Medium	35	4.6	35.4	4.65
High	22	4.1	22.2	4.15
No opinion	14	3.2	14.1	3.24
Total for 15a	99	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 15b. Buses and commercial vehicles				
Low	21	4.0	21.2	4.08
Medium	31	4.4	31.3	4.46
High	31	4.6	31.3	4.66
No opinion	16	3.4	16.2	3.42
Total for 15b	99	0.0	100	0.00
Question 15c. Large power plants				
Low	45	4.7	45.5	4.78
Medium	18	3.8	18.2	3.82
High	17	3.7	17.2	3.76
No opinion	19	3.7	19.2	3.70
Total for 15c	99	0.0	100	0.00
Question 15d. Small portable devices such as laptop computers or cell phones				
Low	57	4.8	57.6	4.84
Medium	7	2.5	7.07	2.57
High	7	2.5	7.07	2.54
No opinion	28	4.3	28.3	4.30
Total for 15d	99	0.0	100	0.00
Question 15e. Onsite power for the home				
Low	56	4.6	56.6	4.67
Medium	14	3.5	14.1	3.50
High	9	2.7	9.09	2.75
No opinion	20	3.7	20.2	3.72
Total for 15e	99	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 15f. Onsite power for buildings such as hospitals and schools				
Low	32	4.6	32.3	4.66
Medium	30	4.5	30.3	4.58
High	15	3.5	15.2	3.58
No opinion	22	4.0	22.2	3.99
Total for 15f	99	0.0	100	0.00
Question 16a. Personal cars and trucks				
Not as safe	8	2.7	8.08	2.74
Equally as safe	40	4.7	40.4	4.75
Safer	23	4.0	23.2	4.01
No opinion	28	4.2	28.3	4.28
Total for 16a	99	0.0	100	0.00
Question 16b. Buses and commercial vehicles				
Not as safe	6	2.4	6.06	2.39
Equally as safe	43	4.7	43.4	4.72
Safer	25	4.1	25.3	4.18
No opinion	25	4.1	25.3	4.14
Total for 16b	99	0.0	100	0.00
Question 16c. Large power plants				
Not as safe	5	2.2	5.05	2.20
Equally as safe	50	4.9	50.5	4.93
Safer	9	2.8	9.09	2.86
No opinion	35	4.6	35.4	4.67
Total for 16c	99	0.0	100	0.00
Question 16d. Small portable devices such as laptop computers or cell phones				

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Not as safe	20	4.0	20.2	4.03
Equally as safe	28	4.3	28.3	4.39
Safer	3	1.7	3.03	1.71
No opinion	48	4.8	48.5	4.90
Total for 16d	99	0.0	100	0.00
Question 16e. Onsite power for the home				
Not as safe	13	3.3	13.1	3.34
Equally as safe	50	4.8	50.5	4.87
Safer	6	2.3	6.06	2.35
No opinion	30	4.4	30.3	4.42
Total for 16e	99	0.0	100	0.00
Question 16f. Onsite power for buildings such as hospitals and schools				
Not as safe	8	2.7	8.08	2.73
Equally as safe	50	4.8	50.5	4.87
Safer	11	3.1	11.1	3.12
No opinion	30	4.4	30.3	4.42
Total for 16f	99	0.0	100	0.00
Question 17a. Trade shows and conferences				
Never	47	4.8	47.5	4.82
Sometimes	39	4.6	39.4	4.64
Frequently	13	3.3	13.1	3.38
Total for 17a	99	0.0	100	0.00
Question 17b. Friends and family members				
Never	63	4.8	63.6	4.84
Sometimes	33	4.7	33.3	4.74

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Frequently	3	1.7	3.03	1.71
Total for 17b	99	0.0	100	0.00
Question 17c. Environmental and conservation groups				
Never	33	4.7	33.3	4.74
Sometimes	54	4.9	54.5	4.96
Frequently	12	3.2	12.1	3.20
Total for 17c	99	0.0	100	0.00
Question 17d. Utility companies or brokers, for example, gas or electricity providers				
Never	15	3.5	15.2	3.54
Sometimes	43	4.9	43.4	4.97
Frequently	39	4.8	39.4	4.84
Don't know	2	1.4	2.02	1.41
Total for 17d	99	0.0	100	0.00
Question 17e. Federal government				
Never	25	4.1	25.3	4.19
Sometimes	39	4.8	39.4	4.86
Frequently	34	4.7	34.3	4.72
Don't know	1	1.0	1.01	1.00
Total for 17e	99	0.0	100	0.00
Question 17f. State government				
Never	33	4.6	33.3	4.62
Sometimes	51	4.8	51.5	4.86
Frequently	14	3.5	14.1	3.50
Don't know	1	1.0	1.01	1.00
Total for 17f	99	0.0	100	0.00

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Question 17g. Local government				
Never	54	4.9	54.5	4.93
Sometimes	37	4.7	37.4	4.73
Frequently	7	2.5	7.07	2.57
Don't know	1	1.0	1.01	1.00
Total for 17g	99	0.0	100	0.00
Question 18a. Television				
Never	29	4.5	29.3	4.55
Sometimes	59	4.8	59.6	4.87
Frequently	11	3.1	11.1	3.15
Total for 18a	99	0.0	100	0.00
Question 18b. Radio				
Never	61	4.7	61.6	4.79
Sometimes	33	4.7	33.3	4.70
Frequently	5	2.2	5.05	2.18
Total for 18b	99	0.0	100	0.00
Question 18c. The Internet				
Never	27	4.3	27.3	4.39
Sometimes	26	4.3	26.3	4.37
Frequently	46	4.7	46.5	4.79
Total for 18c	99	0.0	100	0.00
Question 18d. Newspapers and general interest magazines				
Never	15	3.5	15.2	3.55
Sometimes	62	4.7	62.6	4.74

Value	Frequency	Standard Deviation of Frequency	Percent	Standard Error of Percent
Frequently	22	4.1	22.2	4.15
Total for 18d	99	0.0	100	0.00
Question 18e. Science and technology magazines and journals				
Never	27	4.4	27.3	4.44
Sometimes	46	4.9	46.5	4.99
Frequently	26	4.4	26.3	4.43
Total for 18e	99	0.0	100	0.00
Question 18f. Business or trade magazines				
Never	17	3.7	17.2	3.75
Sometimes	46	4.9	46.5	4.93
Frequently	36	4.7	36.4	4.79
Total for 18f	99	0.0	100	0.00

